

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 E21B43/12 E21B17/01

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 E21B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 1 665 540 A (PACIFIC SOUTHWEST TRUST & SAVINGS BANK) 10 April 1928 (1928-04-10) column 1, lines 2-4,22,23; figure 1 column 2, lines 79-85,96-98	1,2,5-7, 12,13, 16,17
X	US 4 544 207 A (LITZ LAWRENCE M) 1 October 1985 (1985-10-01) column 1, lines 6-8; figure 1 column 3, lines 15-17 40-41 column 2, lines 55-59	12-18
A	EP 0 288 106 A (PUMPTech NV ; SCHLUMBERGER CIE DOWELL (FR)) 26 October 1988 (1988-10-26) the whole document	1-18



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
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- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- * & * document member of the same patent family

Date of the actual completion of the international search

10 February 2005

Date of mailing of the international search report

17/02/2005

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INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/052826

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 3 734 111 A (MC CLINTOCK W) 22 May 1973 (1973-05-22) the whole document	1-18
A	US 4 974 452 A (HUNT ET AL) 4 December 1990 (1990-12-04) the whole document	1-18

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/052826

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
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US 4544207	A	01-10-1985	AU 568593 B2 AU 1681783 A CA 1196270 A1 ZA 8305110 A	07-01-1988 17-01-1985 05-11-1985 28-03-1984
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US 3734111	A	22-05-1973	NONE	
US 4974452	A	04-12-1990	GB 2186809 A CA 1298486 C DE 3763689 D1 EP 0234748 A1 NO 870692 A , B,	26-08-1987 07-04-1992 23-08-1990 02-09-1987 24-08-1987